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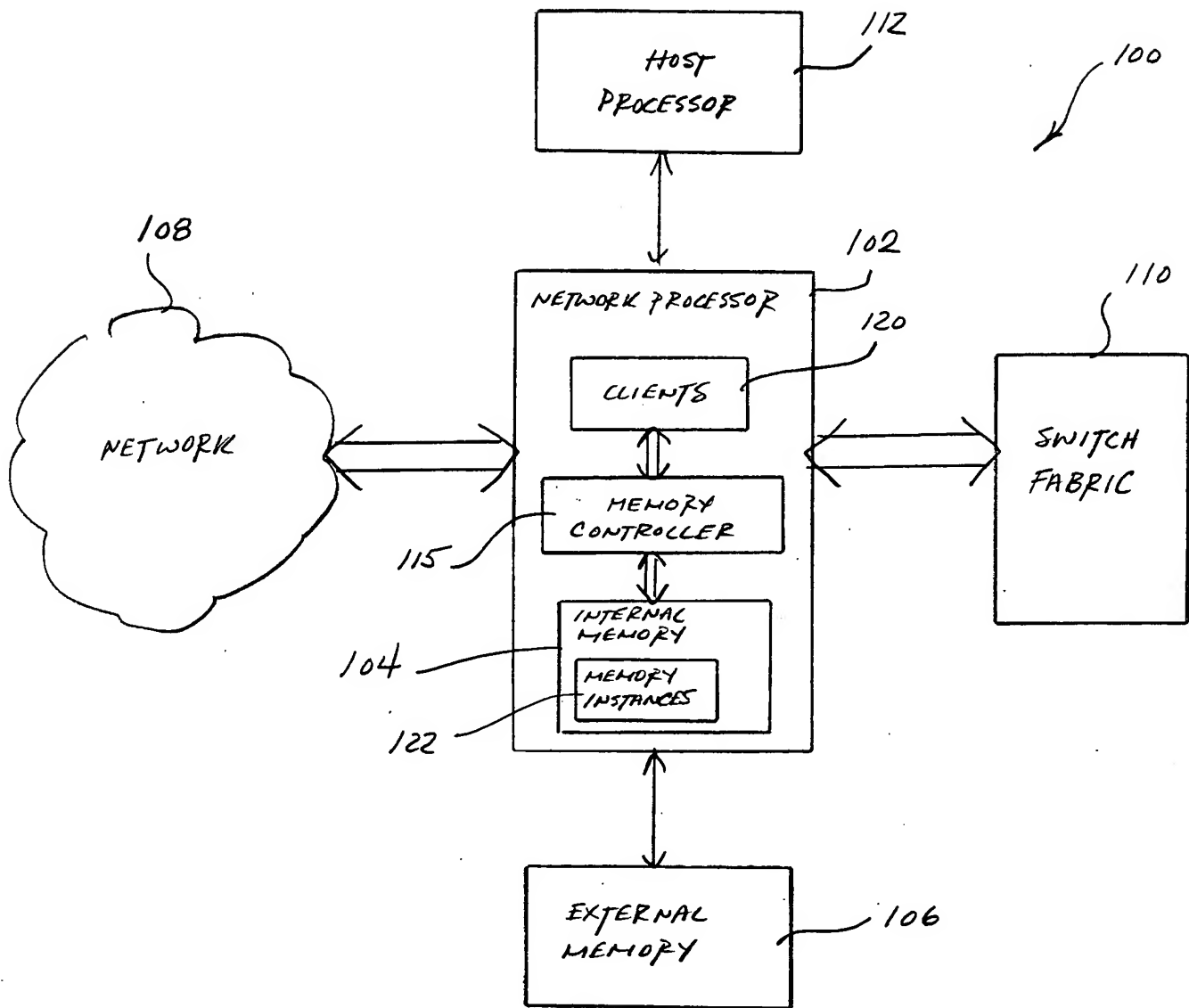


FIG. 1

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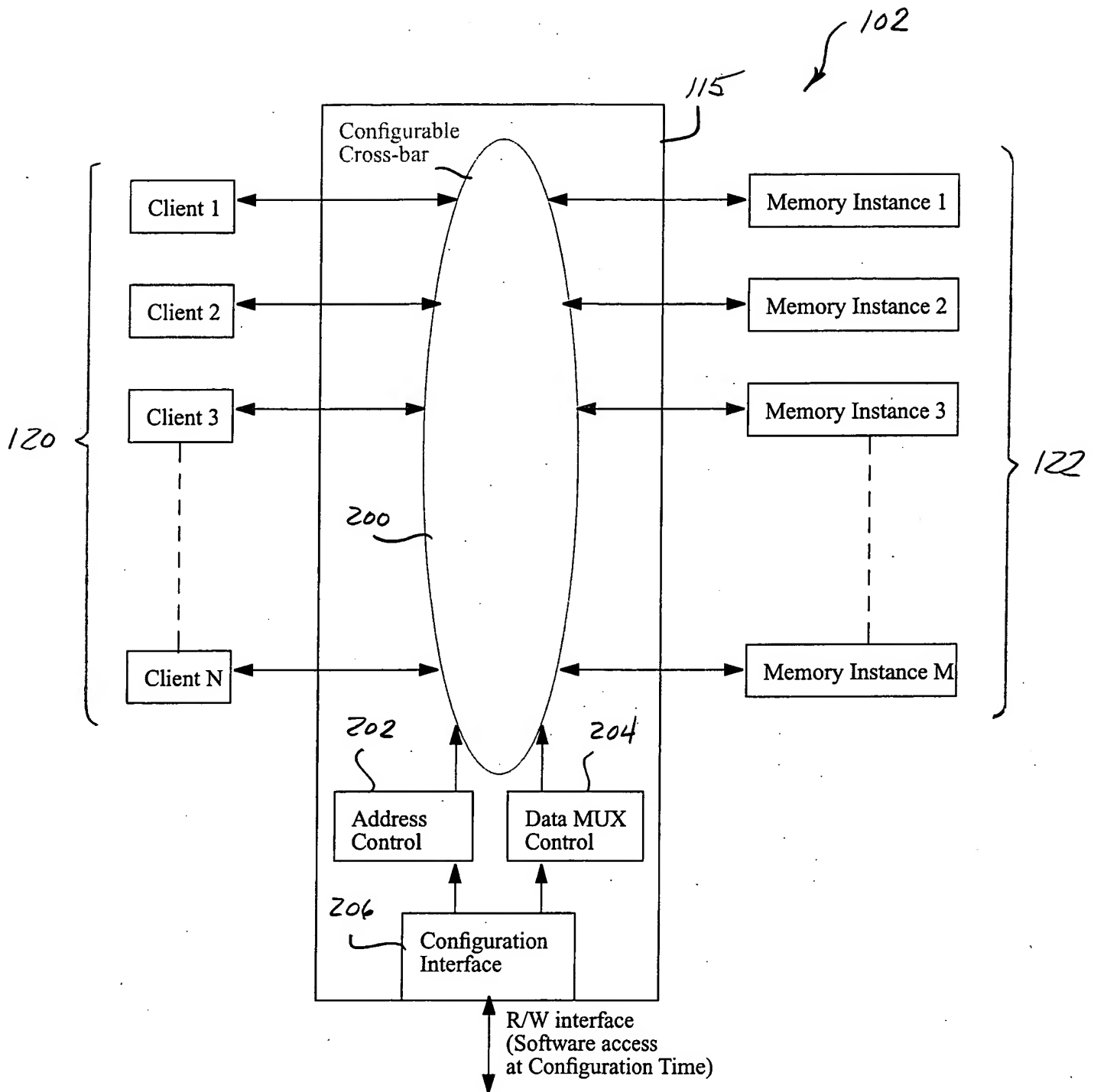


FIG. 2

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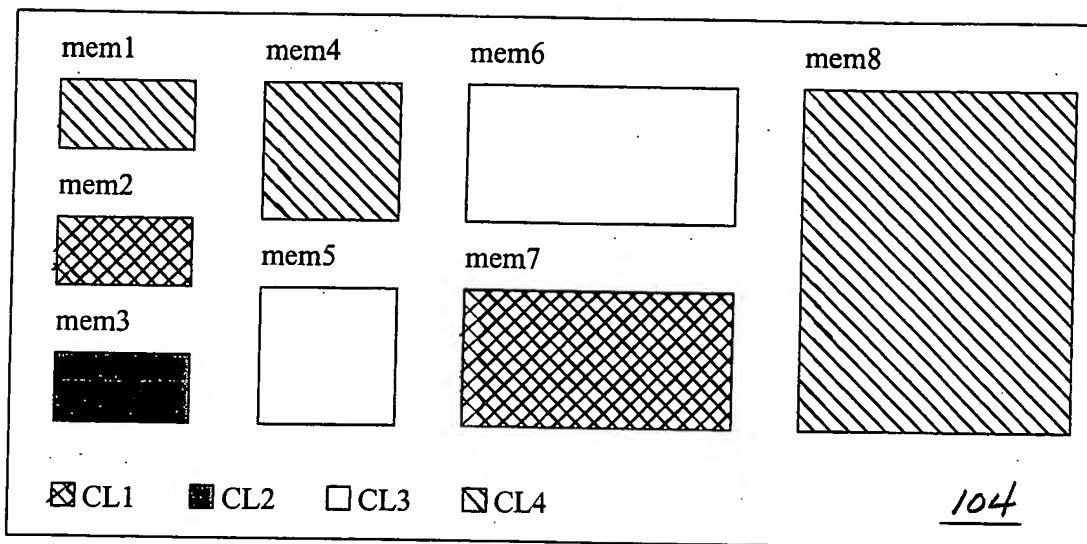


FIG. 3A

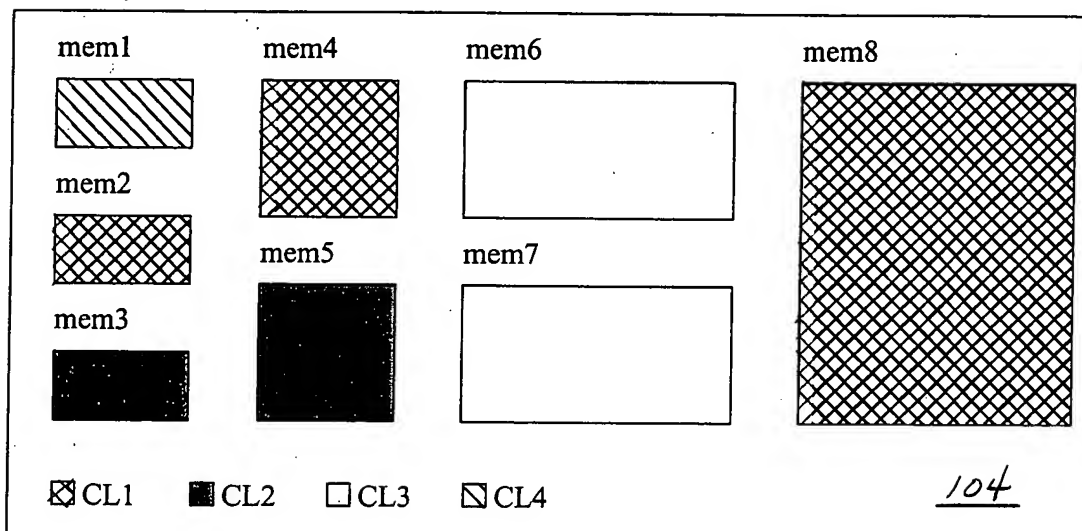


FIG. 3B

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| Memory | Configured Capacity | Word Addressing Range [19:0] | | Address Decoder Value [6:0] | Address Mask Bits [6:0] | RELEVANT BITS |
|--------|---------------------|------------------------------|--------|-----------------------------|-------------------------|---------------|
| Mem1 | 1MB | 00000h | 3FFFFh | 7'b00x_xxxx | 7'b001_1111 | [19:18] |
| Mem2 | 1MB | 40000h | 7FFFFh | 7'b01x_xxxx | 7'b001_1111 | [19:18] |
| Mem3 | 512KB | 80000h | 9FFFFh | 7'b100_xxxx | 7'b000_1111 | [19:17] |
| Mem4 | 512KB | A0000h | BFFFFh | 7'b101_xxxx | 7'b000_1111 | [19:17] |
| Mem5 | 256KB | C0000h | CFFFFh | 7'b110_0xxx | 7'b000_0111 | [19:16] |
| Mem6 | 128KB | D0000h | D7FFFh | 7'b110_10xx | 7'b000_0011 | [19:15] |
| Mem7 | 128KB | D8000h | DFFFFh | 7'b110_11xx | 7'b000_0011 | [19:15] |
| Mem8 | 64KB | E0000h | E3FFFh | 7'b111_000x | 7'b000_0001 | [19:14] |
| Mem9 | 32KB | E4000h | E5FFFh | 7'b111_0010 | 7'b000_0000 | [19:13] |

FIG. 4A

| Memory Size | Mask bits [6:0] |
|-------------|-----------------|
| 1MB | 7'b001_1111 |
| 512KB | 7'b000_1111 |
| 256KB | 7'b000_0111 |
| 128KB | 7'b000_0011 |
| 64KB | 7'b000_0001 |
| 32KB | 7'b000_0000 |

FIG. 4B

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| No. Of Bits | Description |
|-------------|--|
| [6:0] | Address Decoder Value for a particular internal memory <i>instance</i> . |
| [6:0] | Address Mask Value as mentioned in the above table, depending on the memory <i>instance size</i> . |
| [4:0] | Master client for the memory <i>instance</i> . "00001" for CL1..... "10100" for CL20. |

FIG. 4C

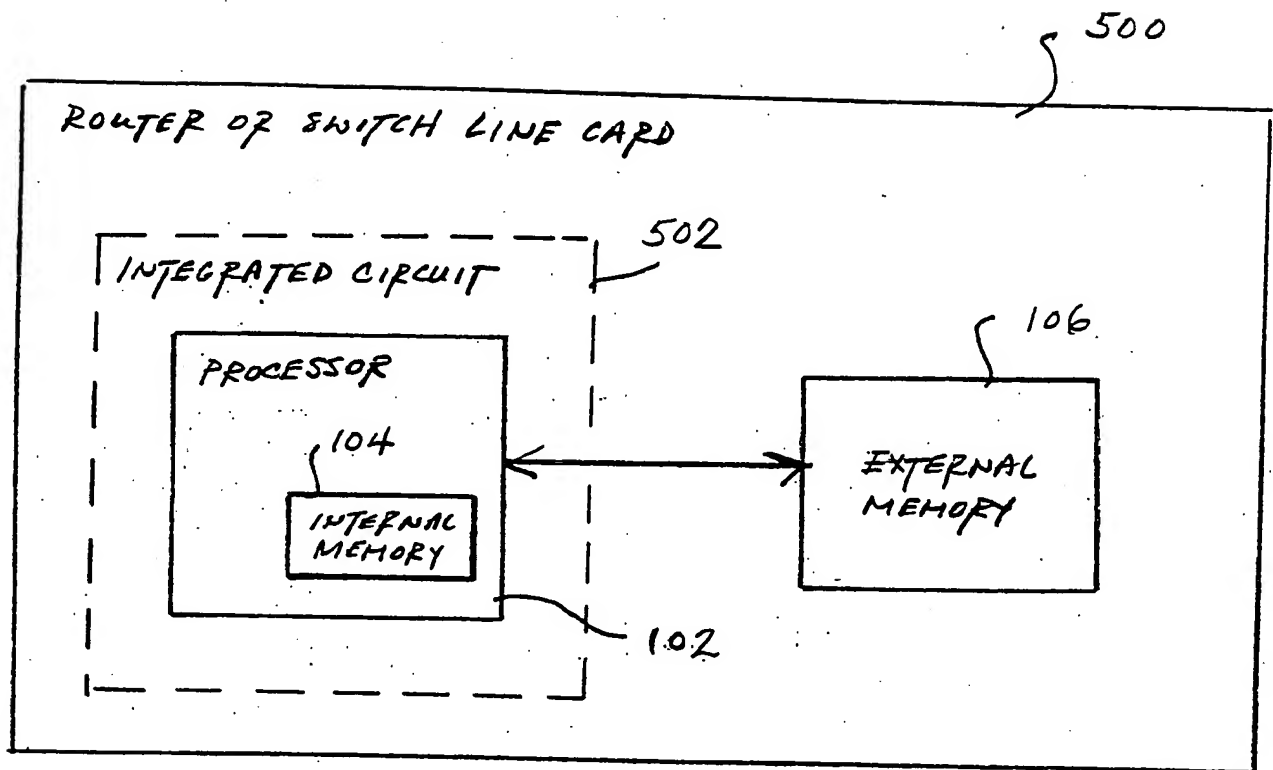


FIG. 5